

SUMMIT ENGINEERING, INC.

September 11, 2009

Dan Juett, KPDES Section Inventory & Data Management Section KPDES Branch, Division of Water 14 Reilly Road Frankfort, Kentucky 40601-1190

RE: Apex Energy, Inc.

> DNR Permit No. 898-0712 Original Application

Dear Mr. Juett:

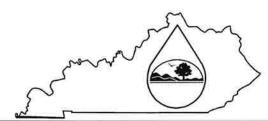
As per the telephone discussion on 09-11-09 the effluent characteristics data sheet has now been corrected.

If you should have any questions concerning this application, please contact me at our Virginia office at 276/530-7220.

Sincerely,

Scott Arnold Project Manager

KPDES FORM HQAA



Kentucky Pollutant Discharge Elimination System (KPDES)

High Quality Water Alternative Analysis

The Antidegradation Implementation Procedures outlined in 401 KAR 5:030, Section 1(3)(b)5 allows an applicant who does not accept the effluent limitations required by subparagraphs 2 and 3 of 5:030, Section 1(2)(b) to demonstrate to the satisfaction of the Environmental and Public Protection Cabinet that no technologically or economically feasible alternatives exist and that allowing

lower water quality located. The appalternatives analyst	ty is nec roval of sis and s	researy to accommodate important es a POTW's regional facility plan pusocioeconomic demonstration for a regional regional facility plan pusocioeconomic demonstration for a regioneering reports, economic feasible	conomic or social development in rsuant to 401 KRS 5:006 shall de regional facility. This demonstrati	the area in which the monstrate compliance on shall also include	e water is with the	
I. Permit Info	rmatio	on				
Facility Name:	Apex	Energy, Inc. (P. N. 898-0712)	KPDES NO.:	KYG046301		
Address:	24044	State Highway, 194E	County:	Pike		
City, State, Zip C		Fedscreek, Kentucky 41524	Receiving Water Name:	Panther Branch of l	Peter Cree	ek
II. Alternativ	es Ana	alysis				
(If yes, then these works Alternative treat Williamson Watt \$2,796,000 (184,8) per foot and \$24,6 to the Williamson way requirements be constructed an sedimentation ba plant is not setup plant would invol this said, it wou sediment. Also, in dollar amount fo \$261,450.00. Discharges will be	indication in indication is not for the formal indication in the formal indication indication in the formal indication in	ther treatment works been investigated which treatment works were contained. works have been investigated artment's system approximately of pipe and pumps) to collect and for a pump station.) It would cost approximate plant. (This would cost approximate plant. (This would cost approximate plant to the topography of the area of bring these costs up even more remove the silt before allowing it occurring high volume sediment. Use of self-contained disposal true approximately 83 self-contained approximately 83 self-contained and the cost of gas for said disposal trucks to remove 83 load result of stormwater and drainagench of Left Fork of Peter Creek of	The nearest water treatment of 35 miles away. It would congather the discharge. (This is consumately \$20.00 per foot with part of the Williamson treatment plant to enter the plant. In additional Another option for transport of cks, which would be excessived disposal truck loads per day posal trucks would be excessived of sediment per day would be from the mine site. The st	nt system is the ost approximately omposed of \$15.00 send the discharge oiping and right of ons would have to at would require a m, the Williamson to the Williamson y expensive. With my to remove the ely expensive. The be approximately	Yes ⊠	
Have other d (If yes, then i locations are Alternate stream	ischarg ndicate not fea	e locations been evaluated? what other discharge locations listile.) ns for the pond and dugouts will	have been evaluated and the re	ek and Tug Fork	<u>Yes</u> ⊠	No
watershed boundaright of entry. Als collect and gather so. Due to the top streams adjacent pumping to any of	ary werso, these the dispograph to Pant f	fore, alternate locations will have deemed impractical due to exist estimates would not meet the critericharges is also cost prohibitive as my the discharges could not feasily the Branch are Grassy Branch are the model adjacent streams, being at Matewan which is approximate	sting land use, public safety, act for a material storage area for it would cost approximately \$20 bly be transported to other drand Rockhouse Fork. There is they also discharge into Peter (ccessibility and/or or this permit. To 2,796,000.00 to do ainageways. The s no advantage to Creek. The closest	wambar 16	

DEP Form Revised November 16, 2004

FORM NOI-CM

Effluent Characteristics Data Sheet

			Longitude: 82° 08' 44"	Receiving Water: Par	Receiving Water: Panther Branch of Left Fork of
Pollutant or Pollutant Characteristic				P	Peter Creek
	value	Units	Sample Type	Analytical Method Used	Method Detection Level
Total Suspended Solids	ď	// ba	4		
Flow	0.0400	Tight.	Grab	SM 2540 D	2.0 mg/L
40	0.01224	MGD	Flow	Field	A/N
	6.8	Standard Units	Grab	SM 4500-H B	Ø/N
Hardness (as mg/I CaCO ₃)	452	mg/L	Grab	SM 2340C	1/VI
Sulfate (as SO ₄)	298	mg/L	Grab	SM 4500-SO.2-E	2.0 mg/L
Total Recoverable Aluminum	0.784	mg/t	Grab	SM 3500 AI	1.0 mg/L
Lotal Recoverable Iron	0.25	mg/L	Grab	SM 3111 B	0.002 mg/L
I otal Recoverable Manganese	0.04	ma/L	Grab	SM 3111 B	0.02 mg/L
Total Recoverable Antimony	0.002 *	mg/L	Grab	EPA 200 8	0.02 mg/L
Total Recoverable Arsenic	0.002 *	mg/L	Grab	EPA 200.8	0.002 mg/L
Total Recoverable Beryllium	0.002 *	ma/L	Grah	EDA 200 B	0.002 mg/L
Total Recoverable Cadmium	0.002 *	ma/L	Grah	EDA 200 8	0.002 mg/L
Total Recoverable Chromium	0.002	ma/l	de re-	EDA 200.0	0.002 mg/L
Total Recoverable Copper	A 2000	1/500	G de la	EFA 200.0	0.002 mg/L
Total Recoverable Lead	* 0000	1,6,1	Grab	EPA 200.8	0.002 mg/L
Total Recoverable Mergins	0.002	mg/L	Grab	EPA 200.8	0.002 mg/L
otal Decoverable Mercury	16.5 x 10	mg/L	Grab	EPA 245.7	1.8 ×10° ma/L
Tatal Barrense In Street	0.002	mg/L	Grab	EPA 200.8	0.002 mg/l
Total Recoverable Selenium	0.008	mg/L	Grab	EPA 200.8	0.002 mg/l
Total Recoverable Silver	0.002	mg/L	Grab	EPA 200.8	0.00 mg/l
lotal Recoverable Thallium	0.002 *	mg/L	Grab	EPA 200.8	0.000 mg/l
lotal Recoverable Zinc	0.028	mg/L	Grab	EPA 200.8	0.000
Free Cyanide	0.02 *	mg/L	Grab	SM 4500 CN CE	0.02 mg/l
Total Phenois	0.05 *	mg/L	Grab	EPA 420.1	0.05 mg/l
Conductivity	865	umho/cm	Grab	FPA 2510 B	1.60.00.3

^{*} Result was below detection limit - Reported Value is the detection limit

Instructions

Provide the outfall number. (use following naming convention -KYG04XXXX-XXX) Report the numerical results of the analysis for the pollutant or pollutant characteristic Provide the name of the receiving water discharged to or sampled Provide the longitude of the discharge point or sample point. Provide the latitude of the discharge point or sample point. Indicate the units, i.e. mg/l, MGD, standard units, °F, etc. Check either sediment structure or in-stream Where sample was collected: Receiving Water: Outfall Number: Longitude: Latitude: Value: Units:

(Attach additional pages if necessary

Analytical Method: Wethod Detection Level:

Sample Type:

Indicate the EPA test method used for analysis of the pollutant or pollutant characteristic

Indicate the MDL for the EPA test method used.

Indicate how the sample was collected, i.e. grab, composite, weir, instantaneous, etc.